

What is claimed is:

1 1. An electric motor comprising:
 2 a housing having first and second ends;
 3 a rotatable shaft extending through the housing;
 4 a commutator disposed in the housing about the shaft;
 5 a plurality of brushes disposed in the housing and engagable with the
 6 commutator ;
 7 a bushing mounted in the housing in engagement with the shaft; and
 8 a lubricant recirculation member disposed in the housing about the
 9 shaft between the commutator and the bushing, the lubricant recirculation member in
 10 the form of a body having a unitarily joined first lubricant recirculation and wear
 11 surface portion and a second vibration dampening portion.

1 2. The motor of claim 1 wherein: 58
 2 the first portion has an internal cavity with a side wall shaped to
 3 recirculate lubricant away from the commutator.

1 3. The motor of claim 1 wherein:
 2 the first and second portions have complementary, mating members
 3 for mechanical interlock of the first and second portions. —

1 4. The motor of claim 1 wherein:
 2 the second portion of the body fixedly engages the motor shaft.

1 5. The motor of claim 4 wherein:
 2 the second portion is formed of a thermoplastic elastomer.

1 6. The motor of claim 5 wherein:
 2 the thermoplastic elastomer is a polyether ester copolymer.

1 ✓ 7. The motor of claim 1 further comprising:
 2 complementary peripheral interlock members formed on the first and
 3 second portions.

1 ✓ 8. The motor of claim 7 wherein:
 2 the complementary interlock members include annular radially inward
 3 and radially outward complementary members on the first and second portions.

1 O 9. The motor of claim 1 further comprising:
 2 a plurality of circumferentially spaced fingers extending from the first
 3 portion into a central bore in the second portion, a radially innermost surface of each
 4 of the plurality of fingers engaging the shaft of the motor to center the lubricant
 5 recirculation member about the shaft.

1 - O 10. The motor of claim 1 wherein:
 2 the first portion of the body of the lubricant recirculation member is
 3 formed of molybdenum disulfide filled nylon 6, 6.

1 S 11. The motor of claim 1 wherein the first portion of the body
 2 further comprises:
 3 a base having a wear surface contacting the bushing; and
 4 non-linear sidewalls extending away from the base to direct lubricant
 5 from the bushing away from the base.